

Title (en)  
METHOD FOR THE PREPARATION OF CITALOPRAM

Title (de)  
VERFAHREN ZUR HERSTELLUNG VON CITALOPRAM

Title (fr)  
PROCEDE POUR LA PREPARATION DE CITALOPRAM

Publication  
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Application  
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Abstract (en)  
[origin: WO0143525A2] The present invention relates to a method for the preparation of citalopram comprising reaction a compound of formula (I) with a compound having formula (II) wherein X is a suitable leaving group and R is -CH<sub>2</sub>-O-Pg, -CH<sub>2</sub>-NPg<sub>1</sub>Pg<sub>2</sub>, -CO-N(CH<sub>3</sub>)<sub>2</sub>, -CH(OR<1>)(OR<2>), -C(OR<4>)(OR<5>)(OR<6>), -COOR<3>, -CH<sub>2</sub>-CO-NH<sub>2</sub>, -CH=CHR<7> and -CONHR<8> wherein Pg is a protection group for an alcohol group, Pg<sub>1</sub> and Pg<sub>2</sub> are protection groups for an amino group, R<1> and R<2> are independently selected from alkyl, alkenyl, alkynyl and optionally alkyl substituted aryl or aralkyl groups or R<1> and R<2> together form a chain of 2 to 4 carbon atoms, each of R<3>, R<4>, R<5>, R<6> and R<7> are independently selected from alkyl, alkenyl, alkynyl and optionally alkyl substituted aryl or aralkyl and R<8> is hydrogen or methyl; to form a compound of formula (III) wherein R is as defined above; followed by conversion of the group R to form a dimethylaminomethyl group and isolation of citalopram base or a pharmaceutically acceptable salt thereof.

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Citation (third parties)  
Third party :  
• REYMOND PH. ET AL: "Determination of plasma levels of citalopram and its demethylated and deaminated metabolites by gas chromatography and gas chromatography-mass spectrometry", JOURNAL OF CHROMATOGRAPHY, vol. 616, 1993, pages 221 - 228, XP002956784  
• "Citalopram Hydrobromide", DRUG MONOGRAPH, August 1999 (1999-08-01), pages 1 - 16, XP002956785, Retrieved from the Internet <URL:http://www.mentalhealth.com/drug/p30-c04.html> [retrieved on 20020712]

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